I.P. Sharp Associates

Sign-on Procedures

The I.P. Sharp telecommunications network provides local dial-up access to SHARP APL in over 150 cities throughout Canada, the United States, Europe and Australia. First introduced in Europe in 1973, Sharp's internally developed packet-switching network has expanded to become one of the largest and most advanced networks in the world. This facility is available at no extra cost. Connect charges are the same low figure (equivalent to about one dollar an hour) whether you're located in Brussels, Sydney, Toronto or New York.

The Sharp communications network is supplemented with the network services of Telenet and Tymnet. In North America both of these networks can be used to access the SHARP APL system at no additional charge. For an explanation of the charges and procedures involved in accessing Tymnet and Telenet outside of North America, contact your local I.P. Sharp representative.

For users in Canada, there is additional access through the Datapac network (for further details, see the workspace `1 NETWORK`).

In addition, it is now possible to access the SHARP APL system via the worldwide public Telex network. Currently, Telex access is available through Amsterdam and Rochester, New York.

The sign-on procedure for accessing the SHARP APL system varies slightly depending on what network you are using. The basic procedure for signing on to SHARP APL, as well as the procedures for signing on to SHARP APL via Tymnet, Telenet and Telex are described in detail below. Sign-on procedures for Tymnet, Telenet, Telex and Datapac are also available on-line in the workspace 1 *NETWORK*.

Problems related to the network can be reported by calling the communications trouble reporting number, (416) 363-1832.

SIGNING ON TO SHARP APL

1. Turn terminal on.

2. If your terminal is connected to a data set, make sure the terminal is in "COMM" or "REMOTE" mode. Then pick up the telephone receiver and push the "TALK" button. When you hear the dial tone, dial the SHARP APL local access number in your area. Upon hearing the high-pitched tone, press the "DATA" button on the telephone.

   If your terminal is connected to a coupler, place the terminal in "LOCAL" mode, dial your local access number and when you hear the high-pitched tone, place the receiver in the coupler. Make sure the cord is at the end marked "CORD". Then put the terminal in "COMM" or "REMOTE" mode.

3. Type the letter *O* and a right parenthesis - "*O)*", then hit carriage return. This will give you a security **blot**. If no blot is received, repeat step 3.

4. Enter another right parenthesis, your sign-on number, a colon and your password:

)1234567:*PASS*

   then hit carriage return.

5. If you have signed on correctly, the computer will respond with the task identifier, time, date, sign-on name, and lastly:

   SHARP APL SERVICE

   If you get a message such as *NUMBER NOT IN SHARP APL SYSTEM* or *INCORRECT SIGNON* ::, the system will produce another blot and you can try again - beginning at step 4.

SIGNING ON VIA TYMNET

1. Turn terminal on.

2. If your terminal is connected to a data set, make sure the terminal is in "COMM" or "REMOTE" mode. Then pick up the telephone receiver and push the "TALK" button. When you hear the dial tone, dial the Tymnet local access number in your area. Upon hearing the high-pitched tone, press the "DATA" button on the telephone.

   If your terminal is connected to a coupler, place the terminal in "LOCAL" mode, dial your local access number and when you hear the high-pitched tone, place the receiver in the coupler. Make sure the cord is at the end marked "CORD". Then put the terminal in "COMM" or "REMOTE" mode.

3. The following message will be sent to your terminal:

   PLEASE TYPE YOUR TERMINAL IDENTIFIER

   On non-ASCII terminals, this prompt will not occur. Simply enter the letter *P* and hit carriage return. The following is a list of terminal types and corresponding identifiers:

Identifier	Code	Speed	Terminal Type
A	ASCII	30 cps	CRT Terminals
C	ASCII	30 cps	Impact Printers
E	ASCII	30 cps	Thermal Printers
G	ASCII	30 cps	Belt Printers

4. After you type your terminal identifier, hit carriage return. Tymnet will respond with your port number and the message *PLEASE LOG IN*(. You address SHARP APL by typing *IPSHARP* or *IPSA*. Note that each letter will be printed twice on ASCII terminals.

5. After you hit carriage return, the next Tymnet prompt is *PASSWORD(*. You respond with a carriage return. Tymnet then responds with a port number and the message *HOST IS ONLINE*.

6. You are now connected to SHARP APL. Continue to sign on in the usual manner, starting at **step 3** of "Signing on to SHARP APL".

SIGNING ON VIA TELENET

1. Turn terminal on.

2. If your terminal is connected to a data set, make sure the terminal is in "COMM" or "REMOTE" mode. Then pick up the telephone receiver and push the "TALK" button. When you hear the dial tone, dial the Telenet local access number in your area. Upon hearing the high-pitched tone, press the "DATA" button on the telephone.

   If your terminal is connected to a coupler, place the terminal in "LOCAL" mode, dial your Telenet local access number and when you hear the high-pitched tone, place the receiver in the coupler. Make sure the cord is at the end marked "CORD". Then put the terminal in the "COMM" or "REMOTE" mode.

3. For an ASCII terminal, hit carriage return, type a right parenthesis and then hit carriage return again.

   For a non-ASCII terminal, type a right parenthesis and then hit carriage return.

4. Telenet will respond with *TELENET*, your port number, and *TERMINAL*x. After receiving this information, press carriage return. Telenet will respond with a "⁻".

   For ASCII terminals, type *C 716SA*, then hit carriage return.

   For non-ASCII terminals, type *C 716SB*, then hit carriage return.

   Telenet will respond with:

   ```
   716 SA CONNECTED
   ```

   or

   ```
   716 SB CONNECTED
   ```

5. You are now connected to SHARP APL. Continue to sign on in the usual manner, starting at **step 3** of "Signing on to SHARP APL".

   Note: If each character you enter is printed twice on your terminal, type *HALF* in response to the "⁻" prompt from Telenet. If you are signed on and want to return to Telenet mode, hit carriage return and enter "⁻". You can then return to the SHARP APL system by typing *CONT* in response to the "⁻" prompt from Telenet.

SIGNING ON VIA TELEX

1. Make a Telex connection to the nearest SHARP APL Telex access point. The precise method of doing this varies considerably from country to country, but most Telex installations have a Telex operator who is familiar with using the Telex machine and making Telex calls, and who will make the connection for you. Alternatively, the local Telex directory or handbook will contain instructions on how to make calls. The numbers to call are:

   Amsterdam: 18859 Rochester: 97-8380

   An answer-back will be printed, indicating that the call is connected to the SHARP APL access point.

2. You then enter:

   CR LF LS O FS) CR

   where: *CR* = carriage return
   LF = linefeed
   LS = letter shift
   FS = figure shift

3. The system responds with something similar to a regular SHARP APL blot. You can now sign on in the regular manner. Remember that before you enter letters, you must first press the letter shift once (do not hold it down). Before entering figures or other symbols, you must first press the figure shift.

SIGN-OFF PROCEDURES

Regardless of the way in which you have accessed the SHARP APL system, the standard procedure for terminating a session is to enter:

)OFF

The system will respond by showing the task number, time and date, the connect time, CPU time and character count for the session and accumulated for the month to date.

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